



The Costs and Benefits of Natural Resources Protection

Soil & Water Conservation Program

Gary Vandiver
Soil and Water Districts Commission, Chair
Governor's Conference on Natural Resources
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Missouri's Rank Among States - Agriculture

- 1st in parks, soils and water citizen support
- 2nd in number of farms, cattle operations and hay
- 3rd in calves
- 5th in rice
- 6th in milk and turkeys
- 7th in soybeans
- 8th in cotton and hogs
- 9th in grapes
- 10th in corn and sorghum

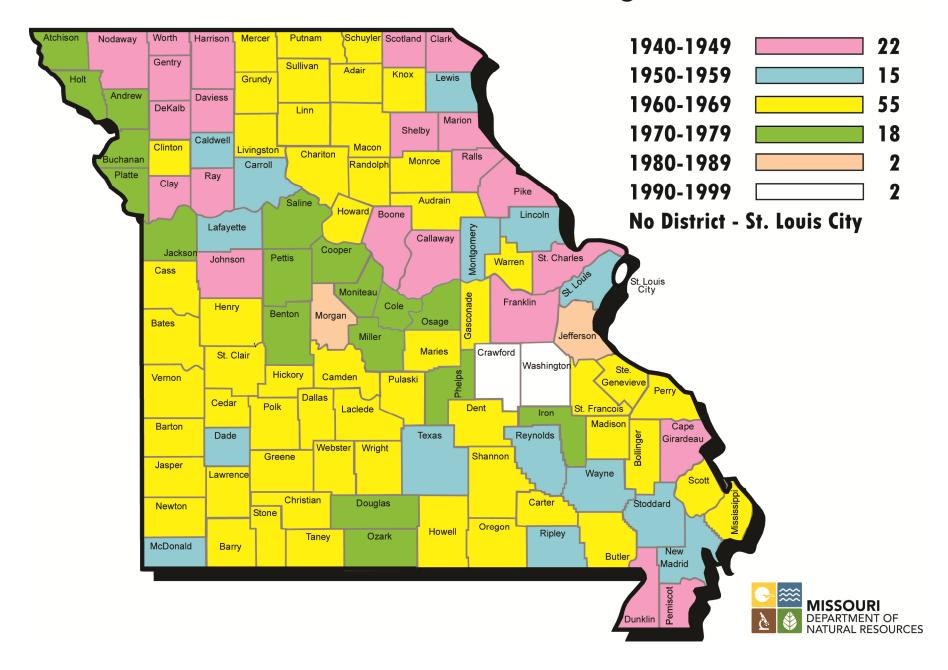
Natural Resources





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Missouri SWCDs - Year Organized





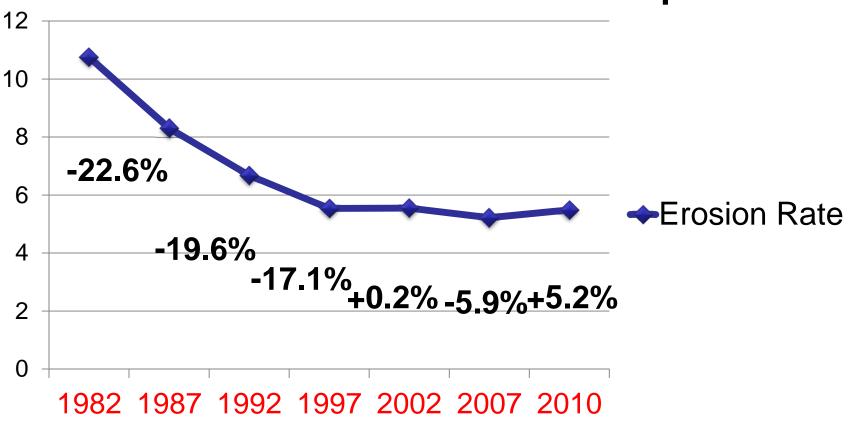
Soil Loss in Missouri

- 1982 erosion rate 10.75 tons/acre on cultivated cropland (13M acres)
- The highest erosion rate in the country for cropland, 2nd highest for cultivated cropland
- 2010 erosion rate 5.49 tons/acre (10.3M acres)

Natural Resources Inventory 2010



Missouri Cultivated Cropland



2010 Natural Resources Inventory





Value of Missouri's Soil and Water Conservation Program

FY15 \$ 49M overall (\$31M conservation practices)

(FAPRI study, Report #31-07, August 2008)

Secondary benefits: 10 year period = \$700M

\checkmark	State-wide business sales	\$	500 M
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\checkmark	Labor income	\$	80 M
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✓ Property income \$ 110 M

✓ Indirect business taxes \$ 14 M

✓ Jobs per year 1,000



Value of Missouri's Soil and Water Conservation Program

- Leveraging federal funds (\$45M in Mississippi River Basin Healthy Watersheds Initiative, and over \$25M annually in other NRCS programs).
- Addresses both water quality and soil erosion issues.
- Supports productive and sustainable agriculture
 - Missouri: \$9.1 billion industry, 2012 Census of Ag

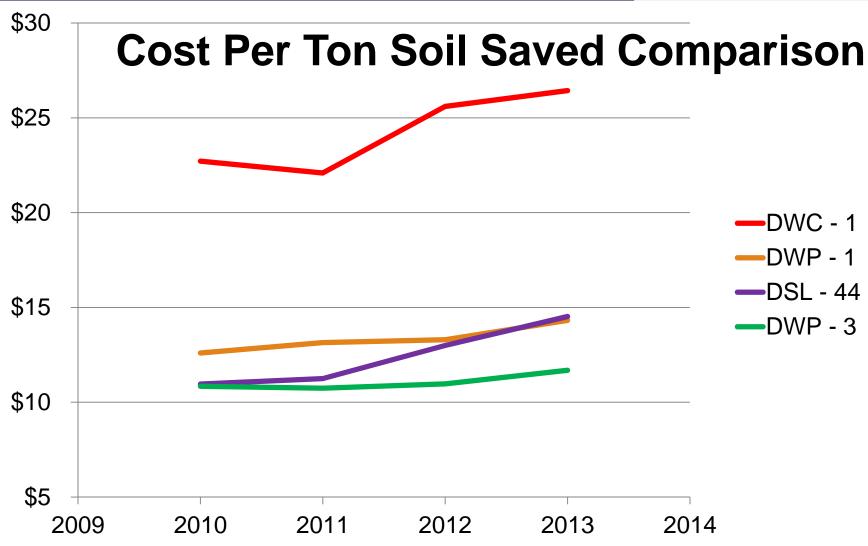


Mark Twain Lake (Drinking Water)

- Annual benefits of SWCP \$20M/year
 - sediment retention structures
 - water impoundment
 - terraces
- Predicted deposition 11,500 acre-feet per year vs.1997 computed rate 290 AFY
- Increased life expectancy for lake of 10 years

Natural Resources









HOUSE BILL NO. 250

95TH GENERAL ASSEMBLY 0210S.06T 2009

278.070, RSMo

(4) "Soil and water conservation cost-share program", a state-funded incentive program designed for the purpose of saving the soil and protecting the water resources of the state [through erosion control and abatement] to preserve the productive power of Missouri agricultural land;

Celebrating 40 years of taking care of Missouri's natural resources. **40 years**

Missouri Department of Natural Resources

Challenges

- Continue to reduce soil loss
- Measure water quality impacts
- Determine the value of the conservation practices
- Conservation targeting



Questions?

